

Observator ANALITE NEP5000 Turbidity Sensor

The Observator ANALITE NEP5000 Turbidity Sensor is compatible with the Nexsens X2 data logger using SDI-12 output. Complete configuration information can be found at:

Observator's Sensor Manual

https://www.fondriest.com/pdf/observator_nep5000_manual.pdf



Connecting Observator ANALITE NEP5000 Turbidity Sensor

Connectorization

For compatibility, sensors must be connected to a female 6-pin wet mateable cable (MCIL-6-FS).

The flying lead for the MCIL-6-FS must be connected to a UW-FWP with the pin configuration in the table below.

Observator Pin Number	MCIL-6-FS Socket Number	Observator Pin Signal	MCIL-6-FS Wire Color	J Pin
1	1	Power GND	Orange	J2
2	2	SDI-12 Data	Black	J6
3	3	10 to 30 VDC power	Red	J5

If the wire color is not listed, then it does not have a UW-FWP connection.



UW-FWP Terminal Pin Numbering



Female 6-pin wet mateable cable (MCIL-6-FS)

UW Field Wireable Plug (UW-FWP)



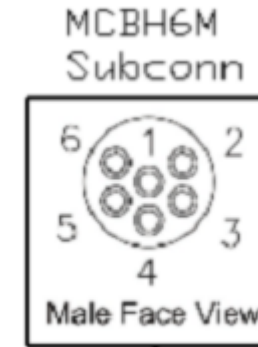
Calibrating the Observator ANALITE NEP5000 Turbidity Sensor

Calibration

For calibration purposes, use the Observator ANALITE NEP5000 Configuration Kit.

The Subconn wire to calibration module connection is detailed in the table below.

Subconn Wire Color	Wire Outputs	Calibration Module Connection
Black	Power GND	Slot 2
White	SDI12 Data	N/A
Red	10 to 30V DC power	Slot 1
Green	4-20mA loop to power GND	N/A
Orange	Voltage Out	N/A
Blue	Calibration Communication Data	Slot 6



Subconn Connector Pin Orientation



Observator ANALITE NEP 5000 Configuration Kit

Wiper Control on Observator ANALITE NEP5000 Turbidity Sensor

Wiper Settings

While directly connected to the NEP5000 Turbidity Sensor, ensure that you check the "Wipe on PowerUp" option.

Checking this option forces the sensor to wipe the optics before every logger reading.

This ensures that the optics on the sensor are clear before the reading is taken, which allows for more accurate measurements.

This option can be found under the "Wiper Control" tab.

Wiping mode Set
Basic Motor Controls SET
Single_direction_Wipe

Wiper Timeout
90

Wipe On PowerUp

Wiping Options
Wiper Option OR Autowipe(in seconds)
30

Power On Raw Output(Analogue out)
Analogue RAW out value during sensor startup.
3731

Turbidity Sensor
Wiper

